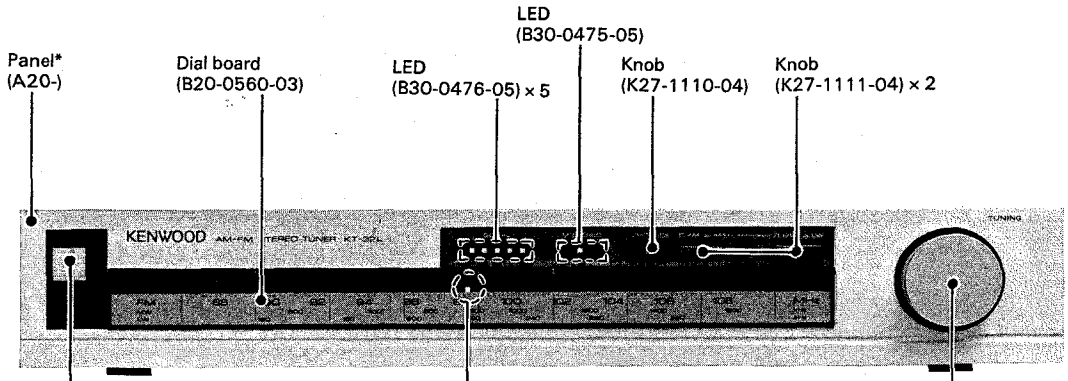
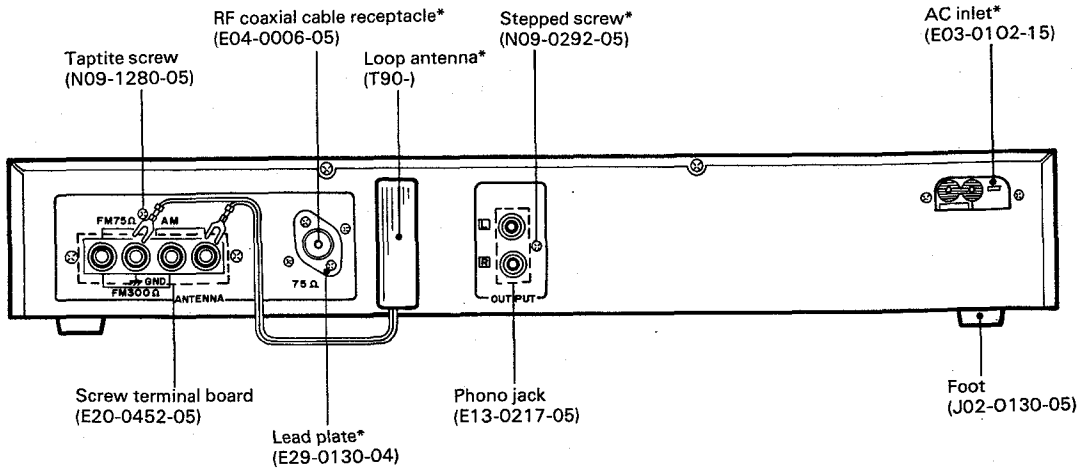
SERVICE MANUAL

KENWOOD

KT-32/B
KT-32L/LB

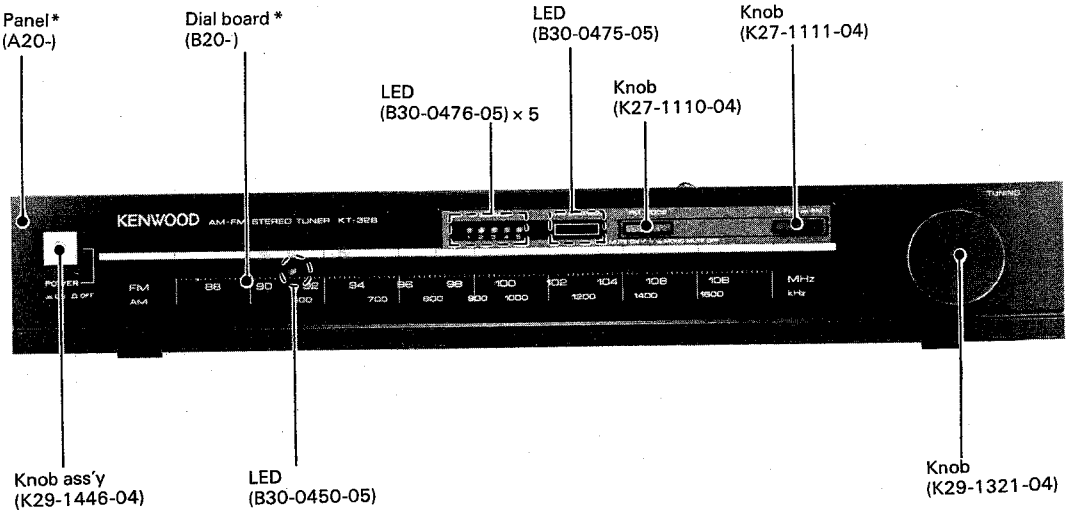
AM-FM STEREO TUNER

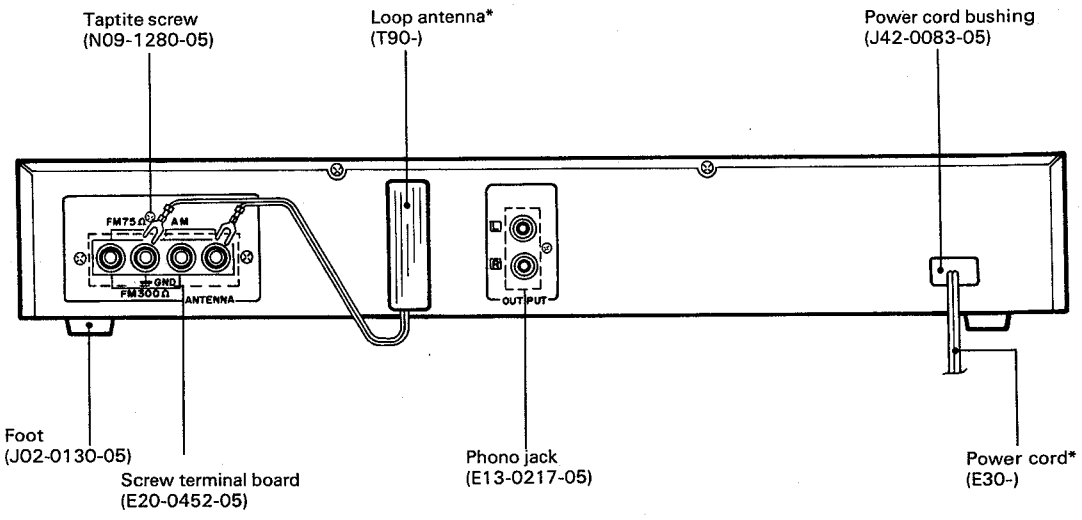




External view of KT-32B is on page 2.

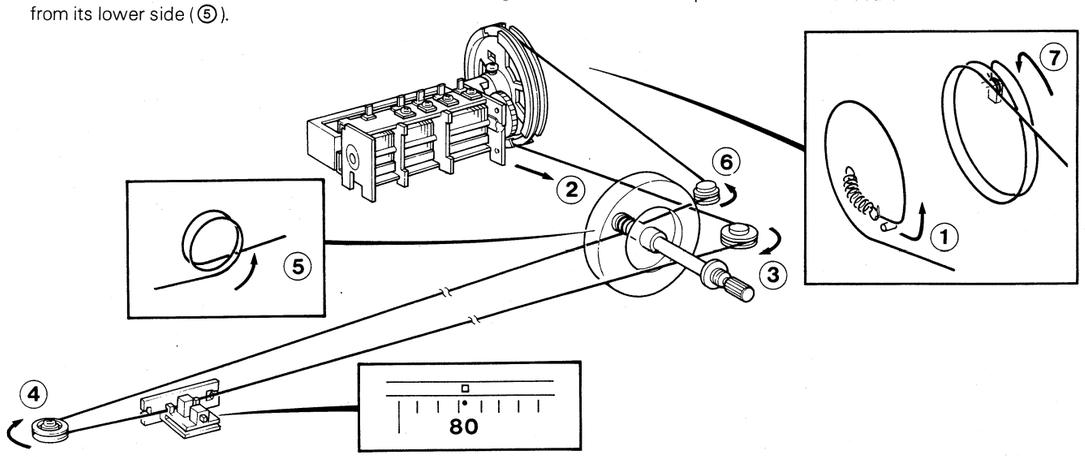
*Refer to parts list on page 10.
Photo is KT-32L


Panel*
(A20-)
Dial board *
(B20-)
LED
(B30-0476-05) x 5
LED
(B30-0475-05)
Knob
(K27-1110-04)
Knob
(K27-1111-04)
KENWOOD
Knob ass'y
(K29-1446-04)
LED
(B30-0450-05)
Knob
(K29-1321-04)


Taptite screw
(N09-1280-05)
Loop antenna*
(T90-)
Power cord bushing
(J42-0083-05)
FM75Ω
AM
GND
FM300Ω
ANTENNA
OUTPUT
Foot
(J02-0130-05)
Screw terminal board
(E20-0452-05)
Phono jack
(E13-0217-05)
Power cord*
(E30-)

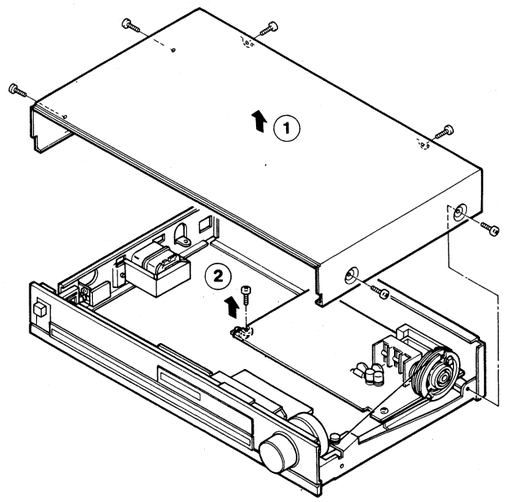
DIAL CORD STRINGING

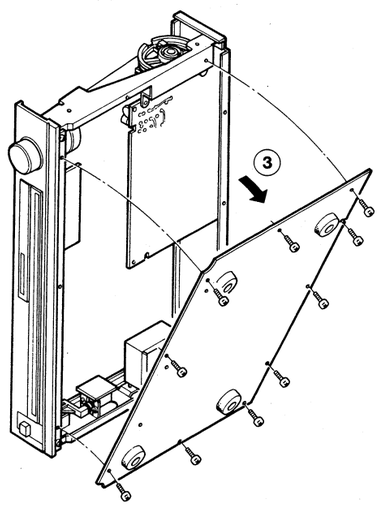
1. Tie the dial cord to the extension spring and hook the end of the spring to the boss of the dial.
2. Wind the dial cord around the dial pulley 1 turn (①) and dress the dial cord in the direction of the arrow ② through ④.
3. Wind the dial cord 2 turns around the dial shaft starting from its lower side (⑤).
4. Dress the dial cord in the direction ⑥ and wind it 2 turns around the dial pulley starting from the upper side. Wind the end of the dial cord to the hook of the dial pulley. Unhook the extension spring from the boss.
5. Receive a 90 MHz signal and mount the dial pointer at the 90 MHz position of the dial board.



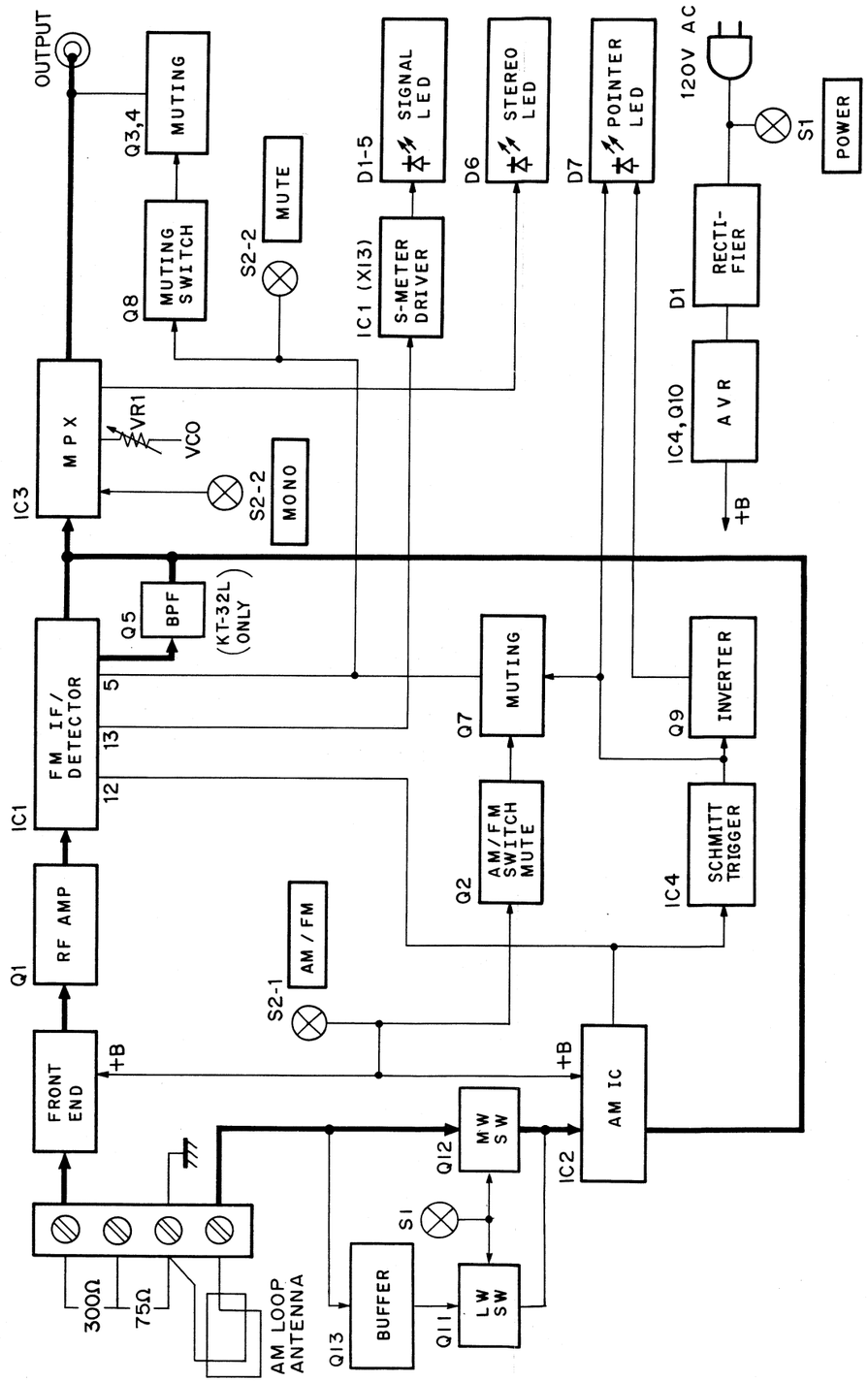
DISASSEMBLY FOR REPAIR

- Removal of bottm plate
  1. Remove the metallic cabinet (remove 6 screws).
  2. Remove the screw retaining the pc board (XO5) to the mounting hardware.
  3. Remove 10 screws retaining the bottom plate.





BLOCK DIAGRAM



ADJUSTMENT

No	ITEM	INPUT SETTING	OUTPUT SETTING	TUNER SETTING	ADJUSTMENT POINT	ADJUST FOR	FIG
FM SECTION	Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM MODE: AUTO						
1	DISCRIMINATOR (1)	(A) 98.0MHz 1kHz,±75kHz dev	(B)	MONO 98.0MHz	Tuning knob	Adjust the tuning knob so that the same amount of noise is observed at the top and bottom of the output waveform with a weak signal.	(a)
2	DISCRIMINATOR (2)	(A) 98.0MHz 1kHz,±75kHz dev 60dB(ANT input)	Connect a DC voltmeter across R10(TP4,5).	MONO 98.0MHz	L2	0 V	(b)
3	DISCRIMINATOR (3)	(A) 98.0MHz 1kHz,±75kHz dev 60dB(ANT input)	(B)	MONO 98.0MHz	L3	Minimum distortion	
	Repeat alignments 2 and 3 several times.						
4	VCO	(A) 98.0MHz 0 dev 60dB(ANT input)	Connect a 330kΩ resistor to TP3. Connect a frequency counter to the resistor via an AC voltmeter.	98.0MHz	VR1	76.00kHz	(c)
5	IF TRANSFORMER	(C) 98.0MHz 1kHz,±68.25kHz dev Selector:L or R Pilot: ±6.75kHz dev 60dB(ANT input)	(B)	98.0MHz	T1 Front end	Minimum distortion	
AM SECTION(KT-32)	Keep the AM loop antenna installed. SELECTOR: AM						
(1)	RF ALIGNMENT (1)	(D) 600kHz 400Hz,30% mod	(B)	600kHz	L4,5,6	Maximum amplitude and symmetry of the oscilloscope display.	
(2)	RF ALIGNMENT (2)	(D) 1400kHz 400Hz,30% mod	(B)	1400kHz	TC2,4 Front end	Maximum amplitude and symmetry of the oscilloscope display.	
	Repeat alignments (1) and (2) several times.						
AM-MW SECTION(KT-32L)	Keep the AM loop antenna installed. SELECTOR: AM,MW						
(3)	RF ALIGNMENT (MW)(1)	(D) 600kHz 400Hz,30% mod	(B)	600kHz	L4,5,6	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (MW)(2)	(D) 1400kHz 400Hz,30% mod	(B)	1400kHz	TC2,4 Front end	Maximum amplitude and symmetry of the oscilloscope display.	
	Repeat alignments (3) and (4) several times.						
AM-LW SECTION(KT-32L)	Keep the AM loop antenna installed. SELECTOR: AM,LW						
(5)	RF ALIGNMENT (LW)(1)	(D) 162kHz 400Hz,30% mod	(B)	162kHz	L8,11	Maximum amplitude and symmetry of the oscilloscope display.	
(6)	RF ALIGNMENT (LW)(2)	(D) 270kHz 400Hz,30% mod	(B)	270kHz	TC1,2	Maximum amplitude and symmetry of the oscilloscope display.	
	Repeat alignments (5) and (6) several times.						

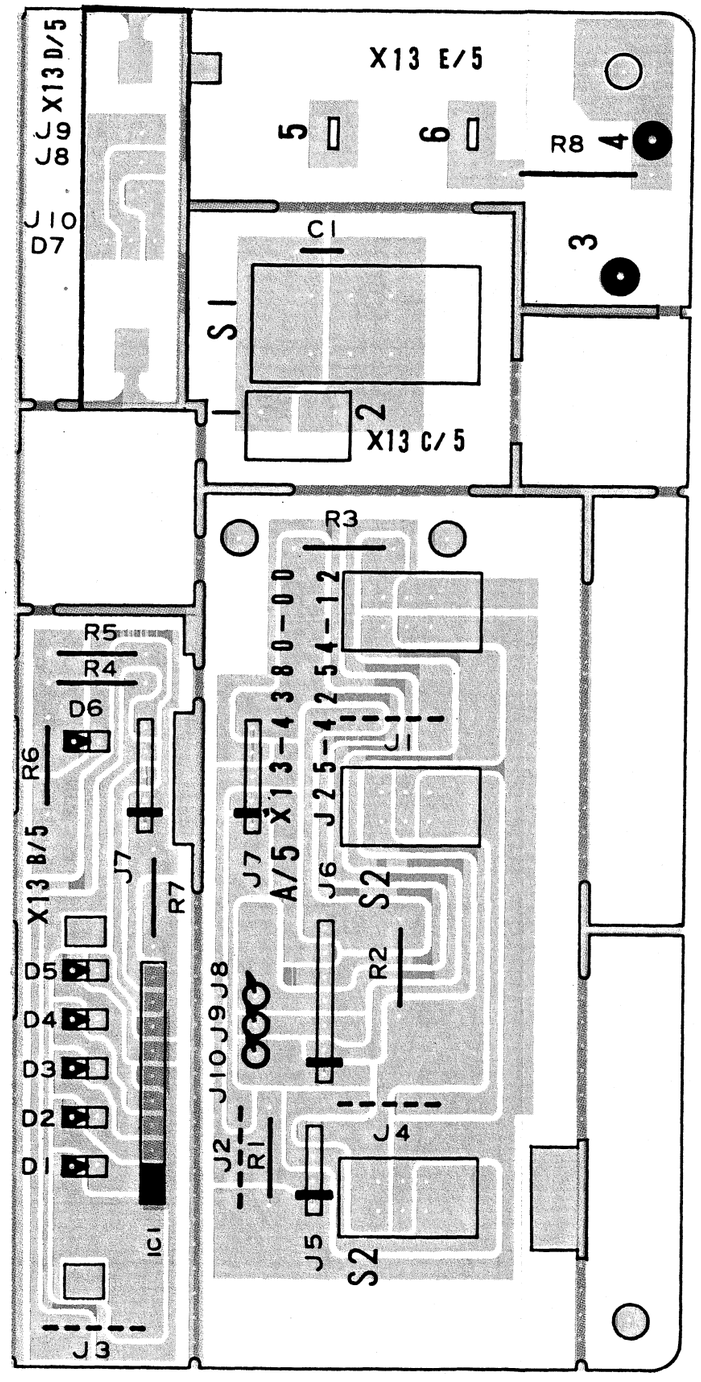
REGLAGE

No	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG
SECTION MF	Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SELECTEUR: FM MODE: AUTO						
1	DISCRIMINATEUR (1)	(A) 98,0MHz 1kHz.±75kHz dév	(B)	MONO 98,0MHz	Bouton d'accord	Ajuster le bouton d'accord de façon que la même quantité du bruit puisse être observe au sommet et en bas de la forme d'onde de sortie sous des conditions d'alimentation de signal faible.	(a)
2	DISCRIMINATEUR (2)	(A) 98,0MHz 1kHz.±75kHz dév 60dB(Entrée ANT)	Relier un voltmètre CC sur R10 (TP4.5).	MONO 98,0MHz	L2	0 V	(b)
3	DISCRIMINATEUR (3)	(A) 98,0MHz 1kHz.±75kHz dév 60dB(Entrée ANT)	(B)	MONO 98,0MHz	L3	Distorsion minimale.	
	Répéter les points 2 et 3 plusieurs fois.						
4	VCO	(A) 98,0MHz 0 dév 60dB(Entrée ANT)	Relier une résistance de 330kΩ à TP3. Raccorder un compteur de fréquence à une résistance par l'intèrmediaire d'un voltmètre CA.	98,0MHz	VR1	76,00kHz	(c)
5	TRANSFORMATEUR FI	(C) 98,0MHz 1kHz.±68,25kHz dév Selection:L ou R Signal pilote: ±6,75kHz dév 60dB(Entrée ANT)	(B)	98,0MHz	T1 Tête H.F.	Distorsion minimale.	
SECTION MA(KT-32)	Laisser l'antenne bouche MA installée. SELECTEUR: AM						
(1)	ALIGNEMENT H.T. (1)	(D) 600kHz 400Hz.30% mod	(B)	600kHz	L4.5.6	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(2)	ALIGNEMENT H.T. (2)	(D) 1400kHz 400Hz.30% mod	(B)	1400kHz	TC2.4 Tête H.F.	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
	Répéter les points (1) et (2) plusieurs fois.						
SECTION MA-OM(KT-32L)	Laisser l'antenne bouche MA installée. SELECTEUR: AM,MW						
(3)	ALIGNEMENT H.T. (MW)(1)	(D) 600kHz 400Hz.30% mod	(B)	600kHz	L4.5.6	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT H.T. (MW)(2)	(D) 1400kHz 400Hz.30% mod	(B)	1400kHz	TC2.4 Tête H.F.	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
	Répéter les points (3) et (4) plusieurs fois.						
SECTION MA-OL(KT-32L)	Laisser l'antenne bouche MA installée. SELECTEUR: AM,LW						
(5)	ALIGNEMENT H.T. (LW)(1)	(D) 162kHz 400Hz.30% mod	(B)	162kHz	L8.11	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(6)	ALIGNEMENT H.T. (LW)(2)	(D) 270kHz 400Hz.30% mod	(B)	270kHz	TC1.2	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
	Répéter les points (5) et (6) plusieurs fois.						

ABGLEICH

NR	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB
UKW-EMPFANGSABTEILUNG Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: WÄHLER: FM MODE: AUTO							
1	DISKRIMINATOR (1)	(A) 98,0MHz 1kHz,±75kHz Hub	(B)	MONO 98,0MHz	Abstimmknopf	Den Abstimmknopf so einstellen, daß an der oberen und unteren Grenze der Ausgangswellenform bei schwachem Signal dasselbe Gerausch auftritt.	(a)
2	DISKRIMINATOR (2)	(A) 98,0MHz 1kHz,±75kHz Hub 60dB(ANT-Eingang)	Einen Gleichspannungs-messer über R10(TP4.5)	MONO 98,0MHz	L2	0 V	(b)
3	DISKRIMINATOR (3)	(A) 98,0MHz 1kHz,±75kHz Hub 60dB(ANT-Eingang)	(B)	MONO 98,0MHz	L3	Minimaler Klirrfaktor.	
Abstimmungen 2 und 3 mehrere Male wiederholen.							
4	SPANNUNGS-GEREGELTER OSZILLATOR	(A) 98,0MHz 0 Hub 60dB(ANT-Eingang)	Einen 330kΩ Wider-standen den Prüfpunkt TP3 asschließen. Einen Frequenzzähler über einen Wechselspannungs messer an den Wider-stand anschließen.	98,0MHz	VR1	76,00kHz	(c)
5	ZF ÜBERTRAGER	(C) 98,0MHz 1kHz,±68,25kHz Hub Wähler:L oder R Pilotten: ±6,75kHz Hub 60dB(ANT-Eingang)	(B)	98,0MHz	T1 Frontende	Minimaler Klirrfaktor.	
MW-EMPFANGSABTEILUNG(KT-32) Die MW-Rahmenantenne angebracht lassen. WÄHLER: AM							
(1)	HF-ABGLEICH (1)	(D) 600kHz 400Hz,30% mod	(B)	600kHz	L4.5.6	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(2)	HF-ABGLEICH (2)	(D) 1400kHz 400Hz,30% mod	(B)	1400kHz	TC2.4 Frontende	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (1) und (2) mehrere Male wiederholen.							
MW-EMPFANGSABTEILUNG(KT-32L) Die MW-Rahmenantenne angebracht lassen. WÄHLER: AM,MW							
(3)	HF-ABGLEICH (MW)(1)	(D) 600kHz 400Hz,30% mod	(B)	600kHz	L4.5.6	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (MW)(2)	(D) 1400kHz 400Hz,30% mod	(B)	1400kHz	TC2.4 Frontende	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							
LW-EMPFANGSABTEILUNG(KT-32L) Die MW-Rahmenantenne angebracht lassen. WÄHLER: AM,LW							
(5)	HF-ABGLEICH (LW)(1)	(D) 162kHz 400Hz,30% mod	(B)	162kHz	L8.11	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(6)	HF-ABGLEICH (LW)(2)	(D) 270kHz 400Hz,30% mod	(B)	270kHz	TC1.2	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (5) und (6) mehrere Male wiederholen.							

SUB-CIRCUIT
(X13-4380-11) Foil side view



	Pin	Voltage
IC1	Pin 1	17.1V
	2	15.1 V
	3	13.0V
	4	11.0V
	5	0V
	6	8.9V
	7	1.9V
	8	–
	9	11.5V

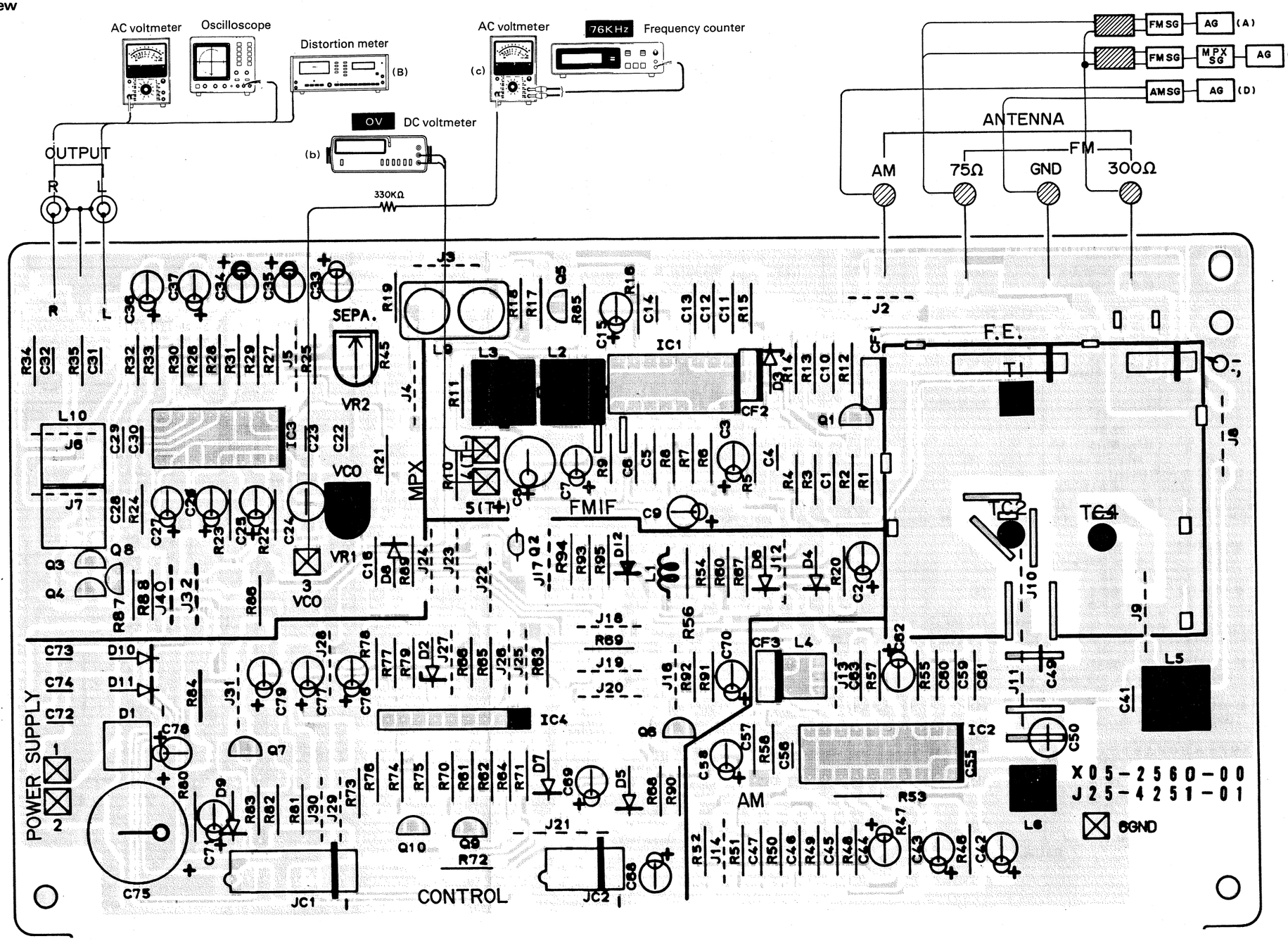
Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

PC BOARD

TUNER (X05-2560-11) Component side view

	Pin	Voltage
Q1	E	0.6V
	C	7.5V
	B	1.3V
Q2	E	0V
	C	11.3V <9.5V>
	B	0V <0.5V>
Q3	E	0V
	C	0V
	B	0V <0.7V>
Q4	E	0V
	C	0V
	B	0V
Q5	E	5.0V
	C	11.5V
	B	5.6V
Q7	E	11.5V
	C	0V <11.4V>
	B	11.5V <10.8V>
Q8	E	0V <1.3V>
	C	0V <0.7V>
	B	0V <0.6V>
Q9	E	19.1V
	C	−0.2V <19.0V>
	B	19.1V <18.6V>
Q10	E	11.5V
	C	19.1V
	B	12.1V
Q12	E	(4.0V): MW (8.4V): LW
	C	11.5V
	B	–
Q13	D	(0.2V): MW (9.0V): LW
	G	(0V): MW (0.6V): LW
	S	(0.1V): MW (0.3V): LW
IC1	Pin 1	2.1V
	2	2.1V
	3	2.1V
	4	0V
	5	0V
	6	5.4V
	7	5.7V
	8	5.7V
	9	5.7V
	10	5.7V
	11	11.7V
	12	0V
	13	5.1V
	14	0V
	15	0V
	16	3.9V

	Pin	Voltage
IC2	Pin 1	(5.1V)
	2	(2.2V)
	3	(12.7V)
	4	(0V)
	5	(7.5V)
	6	(2.0V)
	7	(8.0V)
	8	(8.1V)
	9	(2.7V)
	10	(6.5V)
	11	(0.7V)
	12	(0V)
	13	(2.9V)
	14	(8.7V)
	15	(1.3V)
	16	(5.0V)
	17	(2.9V)
	18	(5.5V)
	19	(5.5V)
	20	(2.8V)
IC3	Pin 1	2.6V
	2	2.6V
	3	5.9V
	4	9.6V
	5	9.6V
	6	4.8V
	7	4.8V
	8	0V
	9	0.7V: ST 11.5V: MONO
	10	2.6V
	11	2.5V
	12	2.6V
	13	2.6V
	14	2.6V
	15	3.2V
	16	0V: ST 2.6V: MONO
IC4	Pin 1	–
	2	16.7V <0.7V>
	3	0.2V <1.9V>
	4	0V <1.3V>
	5	0V
	6	4.9V
	7	4.9V
	8	9.9V
	9	19.1V



Front panel side

Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

KENWOOD

FM-AM STEREO TUNER

KT-32

Specifications

FM Tuner Section

Usable Sensitivity	10.8 d
50 dB Quieting Sensitivity	
Mono	17.2 d
Stereo	37.2 d
Signal-to-Noise Ratio at 65 dBf	
Mono	80 dB
Stereo	72 dB
Total Harmonic Distortion at 1 kHz	
Mono	0.12%
Stereo	0.2%
Frequency Response	30 Hz +0.2 d
Capture Ratio	1.5 dB
Image Rejection Ratio	50 dB
Spurious Response Ratio	75 dB
IF Rejection Ratio	90 dB
Alternate Channel Selectivity	50 dB
AM Suppression Ratio	65 dB
Stereo Separation Ratio	40 dB 35 dB to 10
Antenna Impedance	300 o 75 oh
Output Level at 1 kHz, 100% Dev.	0.6V,
FM Frequency Range	87.5 I

AM Tuner Section

Usable Sensitivity	10 μV
Signal-to-Noise Ratio	50 dB
Total Harmonic Distortion	0.4%
Image Rejection Ratio	35 dB
Output Level	0.18V
AM Frequency Range	530 k

General

Power Requirements	60 Hz Canad 50/60 110- Switc
Power Consumption	6W
Dimensions	W: 4 H: D: 2
Weight (Net)	2.6 k

Kenwood follows a policy of contir in development. For this reason sp changed without notice.

Kenwood poursuit une politique de ce qui concerne le développement, l spécifications sont sujettes à modific

Kenwood strebt ständige, Verbess wicklung an. Daher bleiben Änderun Daten jederzeit vorbehalten.

CAUTION: For continued safety, replace ponents only with manufacturer's recom to parts list). ⚠ Indicates safety criti reduce the risk of electric shock, leakage- measurements shall be carried out (expos bly insulated from the supply circuit) be returned to the customer.

TUNER (X05-2560-11)

FRONT END (W02-0520-05)

IC : MF911
Q : 2SK241

	C9
W02-0520-05	33P
W02-0522-05	22P

	M TYPE	OTHER TYPES
C49	27P	22P
C50	390P	360P

(X13-4380-11) (B/5)

D1~5: SIGNAL METER

D6: STEREO

SIGNAL METER DRIVE

IC1 : AN6876
D1~5 : B30-0476-05
D6 : B30-0475-05

(X13-4380-11) (A/5)

(X13-4380-11) (D/5)

TUNING

D7: B30-0450-05

(X13-4380-11) (C/5)

(X13-4380-11) (E/5)

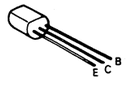
Q1 : 2SC1675
Q2~4 : 2SC945(A), 2SC2320 or 2SC1685
Q7~9 : 2SA733(A), 2SA999, 2SA1127NC or 2SA564A
Q10 : 2SD863
D1 : SIWB10
D2 : RD5.1E(B2)
D3~12 : IS2076 or ISI555
IC1 : HAI1225
IC2 : LAI245
IC3 : AN7470
IC4 : AN6561

V : FM STEREO
(V): AM
< V>: MUTING

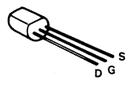
POWER S1 · FM MODE S2-2 (AUTO) · FM/AM S2-1 (FM) · TUNING

2SA733 (A)
2SA999
2SC1675
2SC2320
2SC2878

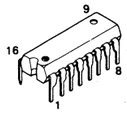
2SC945 (A)
2SD863



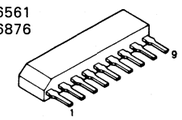
2SK136
2SK163



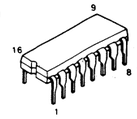
HA11225



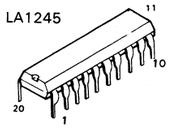
AN6561
AN6876



AN7470



LA1245



DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during recept broadcast signal (with a signal strength ANT terminal).

KENWOOD

FM-AM STEREO TUNER

KT-321

Specifications

FM Tuner Section

Sensitivity at 75 ohms	
Mono: S/N 26 dB, 40 kHz Dev.	0.8 μ
Stereo: S/N 46 dB, 46 kHz Dev.	25 μ
Limiting Level	
–3 dB Point, 40 kHz Dev.	0.5 μ
Frequency Response	30 H
	+0.2
Total Harmonic Distortion	
Mono: 1 kHz, 40 kHz Dev.	0.12
Stereo: 1 kHz, 46 kHz Dev.	0.3%
S/N Weighted (IEC-A)	
Mono: 40 kHz Dev., 1 mV Input	76 dI
Stereo: 46 kHz Dev., 1 mV Input	69 dI
S/N Ratio (IHF)	
Mono: 75 kHz Dev., 1 mV Input	80 dI
Stereo: 75 kHz Dev., 1 mV Input	72 dI
FM Stereo Separation: 1 mV Input (DIN)	
250 Hz	42 d
1 kHz	45 d
6.3 kHz	40 d
12.5 kHz	30 d
Image Rejection Ratio	50 d
Selectivity	
300 kHz, 20 dB Input	70 d
IF Rejection Ratio	90 d
AM Suppression Ratio	65 d
Spurious Response Ratio	75 d
Capture Ratio	2.0 c

MW Tuner Section

Sensitivity S/N 20 dB	10 μ
S/N Ratio: 1 mV Input	50 d
Image Rejection Ratio	35 d

LW Tuner Section

Sensitivity S/N 20 dB	10 μ
S/N Ratio: 1 mV Input	50 d
Image Rejection Ratio	70 d

General

Power Consumption	6W
Dimensions (W x H x D)	420
Weight (net)	2.6 k

Kenwood follows a policy of continuous ac in development. For this reason specificat changed without notice.

Kenwood poursuit une politique de progrès ce qui concerne le développement. Pour cet spécifications sont sujettes à modifications s

Kenwood strebt ständige Verbesserungen wicklung an. Daher bleiben Änderungen der Daten jederzeit vorbehalten.

CAUTION: For continued safety, replace safety ponents only with manufacturer's recommended to parts list). ⚠ Indicates safety critical con reduce the risk of electric shock, leakage-current measurements shall be carried out (exposed part bly insulated from the supply circuit) before th returned to the customer.

TUNER (X05-2572-71)

FRONT END (W02-0521-05)

RF AMP

MIX

IF

BPF

MUTING

LPF

QUADRATURE

AVR

RECTIFIER

SEPA.

OUTPUT L R

FM 300Ω 75Ω

AM LOOP ANTENNA

IC :MF911
Q1,2 :2SK241

LW RF

MW RF

BUFFER

LW↔MW SW

MW OSC

LW OSC

SCHMITT TRIGGER

INVERT AMP

AM↔FM SWITCHOVER MUTING

MUTING SW

(X13-4392-71)(B/5)

D1~5: SIGNAL METER

SIGNAL METER DRIVE

STEREO

MUTE OFF MONO

MUTE ON AUTO

(X13-4392-71) (A/5)

(X13-4392-71) (D/5)

TUNING

D7: B30-0450-05

(X13-4392-71)(C/5)

16.7V AC

(X13-4392-71) (E/5)

S1 POWER ON ⟷ OFF

IC1 :AN6876
D1~5 :B30-0476-05
D6 :B30-0475-05

IC1 :HA11225
IC2 :LA1245
IC3 :AN7470
IC4 :AN6561

Q1 :2SC1675
Q2~5 :2SC945(A), 2SC2320 or 2SC1685
Q7~9 :2SA733(A), 2SA999, 2SA1127NC or 2SA564A
Q10 :2SD863
Q12 :2SC2878
Q13 :2SK163 or 2SK136

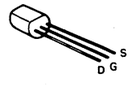
D1 :S1WB10
D2 :RD5.1E(B2)
D3~17 :IS2076 or ISI555

V : FM STEREO
(V): AM
< V>: MUTING

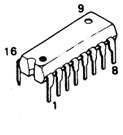
POWER S1 | FM MODE S2-2 (AUTO) | FM/AM S2-1 (FM) | MW/LW S1 (MW) | TUNING

2SA733 (A) 2SA999 2SC1675
2SC2320 2SC2878 2SC945 (A) 2SD863

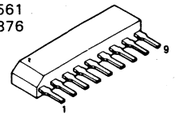
2SK136 2SK163



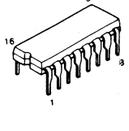
HA11225



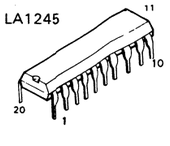
AN6561 AN6876



AN7470



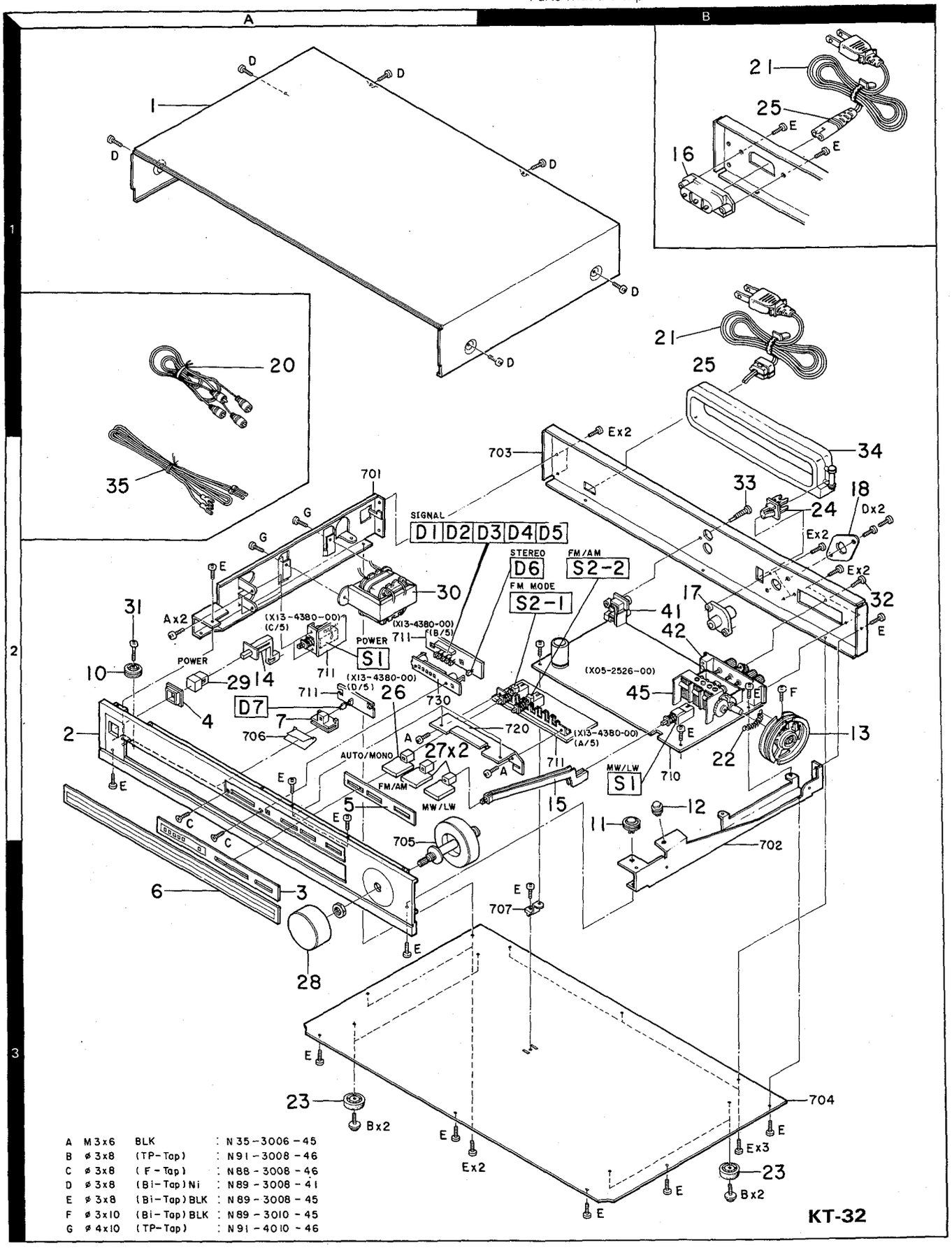
LA1245



DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of broadcast signal (with a signal strength of 60 ANT terminal).

EXPLODED VIEW

Parts with the exploded numbers 700 or more are not supplied.



A	M3x6	BLK	: N35-3006-45
B	ø3x8	(TP-Tap)	: N91-3008-46
C	ø3x8	(F-Tap)	: N88-3008-46
D	ø3x8	(Bi-Tap)Ni	: N89-3008-41
E	ø3x8	(Bi-Tap)BLK	: N89-3008-45
F	ø3x10	(Bi-Tap)BLK	: N89-3010-45
G	ø4x10	(TP-Tap)	: N91-4010-46

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			KT-32/32B/32L/32LB			
1	1A		A01-0650-02	METALLIC CABINET		S
1	1A	*	A01-0689-02	METALLIC CABINET		B
2	2A	*	A20-3671-02	PANEL	KPUM	S
2	2A	*	A20-3671-02	PANEL	UESX	S
2	2A	*	A20-3672-02	PANEL	T	S
2	2A	*	A20-3673-02	PANEL	E	S
2	2A	*	A20-3787-02	PANEL	KPUM	B
2	2A	*	A20-3787-02	PANEL	UESX	B
2	2A	*	A20-3788-02	PANEL	T	B
2	2A	*	A20-3789-02	PANEL	E	B
3	3A	*	B03-1036-04	DRESSING PLATE(SIGNAL,FUNCTION)	KPUM	S
3	3A	*	B03-1036-04	DRESSING PLATE(SIGNAL,FUNCTION)	UESX	S
3	3A	*	B03-1037-04	DRESSING PLATE(SIGNAL,FUNCTION)	TE	S
3	3A	*	B03-1142-04	DRESSING PLATE(SIGNAL,FUNCTION)	KPUM	B
3	3A	*	B03-1142-04	DRESSING PLATE(SIGNAL,FUNCTION)	UESX	B
3	3A	*	B03-1143-04	DRESSING PLATE(SIGNAL,FUNCTION	TE	B
4	2A		B07-1185-04	ESCUTCHEON(POWER)		S
4	2A		B07-1248-04	ESCUTCHEON(POWER)		B
5	2A		B07-1187-04	ESCUTCHEON(FM MODE,AM/FM,MW/LW)		S
5	2A		B07-1247-14	ESCUTCHEON(FM MODE,AM/FM,MW/LW)		B
6	3A	*	B20-0558-03	DIAL BOARD	KPUM	S
6	3A	*	B20-0558-03	DIAL BOARD	UEX	S
6	3A	*	B20-0559-03	DIAL BOARD	S	S
6	3A	*	B20-0560-03	DIAL BOARD	TE	S
6	3A	*	B20-0568-03	DIAL BOARD	KPUM	B
6	3A	*	B20-0568-03	DIAL BOARD	UEX	B
6	3A	*	B20-0569-03	DIAL BOARD	S	B
6	3A	*	B20-0570-03	DIAL BOARD	TE	B
7	2A		B21-0057-04	DIAL POINTER		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0098-03	WARRANTY CARD	E	
-		*	B50-4947-00	INSTRUCTION MANUAL(ENGLISH)	KPUM	
-		*	B50-4947-00	INSTRUCTION MANUAL(ENGLISH)	UESX	
-		*	B50-4948-00	INSTRUCTION MANUAL(FRENCH)	PMX	
-		*	B50-4949-00	INSTRUCTION MANUAL(SPANISH)	M	
-		*	B50-4950-00	INSTRUCTION MANUAL(F,G,D,SW,I)	E	
-		*	B50-4951-00	INSTRUCTION MANUAL(ENGLISH)	T	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
10	2A		D15-0170-14	PULLEY LEFT		
11	2B		D15-0174-05	PULLEY ASSY(LARGE)RIGHT-FRONT		
12	2B		D15-0175-15	PULLEY ASSY(SMALL)RIGHT-REAR		
13	2B		D15-0177-04	DIAL PULLEY		
14	2A		D21-0597-04	EXTENSION SHAFT(POWER KNOB)		
15	2A		D21-0598-04	EXTENSION SHAFT(MW/LW)	TE	
⚠ 16	2B		E03-0102-15	AC INLET	UMUES	
⚠ 16	2B		E03-0102-15	AC INLET	X	
17	2B		E04-0006-05	RF COAXIAL CABLE RECEPTACLE	E	

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	18	2B		E29-0130-04	LEAD PLATE(FTZ)	E	
	20	1A		E30-0505-05	AUDIO CORD		
⚠	21	1B		E30-0181-05	AC POWER CORD	KP	
⚠	21	1B		E30-0459-05	AC POWER CORD	E	
⚠	21	1B		E30-0587-15	AC POWER CORD	T	
⚠	21	1B		E30-1305-15	AC POWER CORD (INLET)	UMUES	
⚠	21	1B		E30-1342-05	AC POWER CORD (INLET)	X	
	22	2B		G01-0044-14	EXTENSION SPRING(DIAL PULLEY)		
	-		*	H01-4880-04	ITEM CARTON CASE	KPUM	S
	-		*	H01-4880-04	ITEM CARTON CASE	UESX	S
	-		*	H01-4882-04	ITEM CARTON CASE	E	S
	-		*	H01-4883-04	ITEM CARTON CASE	T	S
	-		*	H01-5019-04	ITEM CARTON CASE	KPUM	B
	-		*	H01-5019-04	ITEM CARTON CASE	UESX	B
	-		*	H01-5020-04	ITEM CARTON CASE	T	B
	-		*	H01-5021-04	ITEM CARTON CASE	E	B
	-			H10-1685-03	POLYSTYRENE FOAMED FIXTURE		
	-			H25-0078-04	PROTECTION BAG(235X315)		
	-			H25-0179-04	PROTECTION BAG(530X450X0.05)		
	23	3A,3B		J02-0130-05	FOOT		
	24	2B		J19-0626-12	ANTENNA HOLDER		
⚠	25	1B		J42-0083-05	POWER CORD BUSHING	KPTE	
	-			J61-0307-05	WIRE BAND		
	26	2A		K27-1110-04	KNOB(BUTTON)AUTO/MONO		S
	26	2A	*	K27-1257-04	KNOB(BUTTON)AUTO/MONO		B
	27	2A	*	K27-1111-04	KNOB(BUTTON)FM/AM,MW/LW		S
	27	2A	*	K27-1257-04	KNOB(BUTTON)FM/AM,MW/LW		B
	28	3A		K29-1321-04	KNOB TUNING		S
	28	3A	*	K29-1499-04	KNOB TUNING		B
	29	2A		K29-1446-04	KNOB ASSY POWER		S
	29	2A		K29-1446-04	KNOB ASSY POWER		B
⚠	30	2A		L01-2901-05	POWER TRANSFORMER	KP	
⚠	30	2A		L01-2902-05	POWER TRANSFORMER	TE	
⚠	30	2A		L01-2904-05	POWER TRANSFORMER	UMUES	
⚠	30	2A		L01-2904-05	POWER TRANSFORMER	X	
	31	2A		N09-0293-05	STEPPED SCREW(ø2.6X14)PULLEY		
	32	2B		N09-1280-05	TAPTITE SCREW(ø3X8) ANT GND		
	33	2B		N09-0292-05	STEPPED SCREW(ø3X19) GND	E	
	34	2B		T90-0104-15	LOOP ANTENNA (AM)	KPUM	
	34	2B		T90-0104-15	LOOP ANTENNA (AM)	UESX	
	34	2B		T90-0128-05	LOOP ANTENNA (AM)	TE	
	35	2A		T90-0132-05	T TYPE ANTENNA(FM)		
	TUNER (X05-2560-11)						
	C1			CK45FF1H103Z	CERAMIC 0.01UF Z	TE	
	C1			C91-0083-05	CERAMIC 0.01UF N	KPUM	
	C1			C91-0083-05	CERAMIC 0.01UF N	UESX	
	C2			CE04FW1C330M	ELECTRO 33UF 16WV		
	C3			CE04FW1H3R3M	ELECTRO 3.3UF 50WV		
	C4			CK45FF1H473Z	CERAMIC 0.047UF Z		
	C5 ,6			CK45FF1H223Z	CERAMIC 0.022UF Z	TE	
	C5 ,6			C91-0085-05	CERAMIC 0.022UF N	KPUM	
	C5 ,6			C91-0085-05	CERAMIC 0.022UF N	UESX	

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C7			CE04FW1C330M	ELECTRO	33UF	16WV		
C8			CE04FW1A101M	ELECTRO	100UF	10WV		
C9			CE04FW1H010M	ELECTRO	1UF	50WV		
C10 -13			CK45FF1H103Z	CERAMIC	0.01UF	Z	TE	
C10 -13			C91-0083-05	CERAMIC	0.01UF	N	KPUM	
C10 -13			C91-0083-05	CERAMIC	0.01UF	N	UESX	
C14			CC45FSL1H221J	CERAMIC	220PF	J		
C15			CE04FW1H010M	ELECTRO	1UF	50WV		
C16			C91-0083-05	CERAMIC	0.01UF	N	KPUM	
C16			C91-0083-05	CERAMIC	0.01UF	N	UESX	
C16 ,17			CF92FV1H103J	MF	0.010UF	J	TE	
C22			CK45FB1H561K	CERAMIC	560PF	K		
C23			CF92FV1H473J	MF	0.047UF	J		
C24			CQ09FS1H471J	POLYSTY	470PF	J		
C25			CE04FW1H3R3M	ELECTRO	3.3UF	50WV		
C26			CE04FW1H2R2M	ELECTRO	2.2UF	50WV		
C27			CE04FW1HR47M	ELECTRO	0.47UF	50WV		
C28			CC45FSL1H221J	CERAMIC	220PF	J	TE	
C29			CC45FSL1H221J	CERAMIC	220PF	J	KPUM	
C29			CC45FSL1H221J	CERAMIC	220PF	J	UESX	
C29 ,30		*	CF92FV1H112J	MF	1100PF	J	TE	
C30			CC45FSL1H221J	CERAMIC	220PF	J	KPUM	
C30			CC45FSL1H221J	CERAMIC	220PF	J	UESX	
C31 ,32			CF92FV1H153J	MF	0.015UF	J	SX	
C31 ,32			CF92FV1H223J	MF	0.022UF	J	KPUM	
C31 ,32			CF92FV1H223J	MF	0.022UF	J	UE	
C31 ,32			CF92FV1H472J	MF	4700PF	J	TE	
C33			CE04FW1V4R7M	ELECTRO	4.7UF	35WV		
C34 ,35			CE04FW1C100M	ELECTRO	10UF	16WV	TE	
C36 ,37			CE04FW1HR33M	ELECTRO	0.33UF	50WV	KPUM	
C36 ,37			CE04FW1HR33M	ELECTRO	0.33UF	50WV	UESX	
C36 ,37			CE04FW1H2R2M	ELECTRO	2.2UF	50WV	TE	
C40			CK45FF1H223Z	CERAMIC	0.022UF	Z	TE	
C41			CC45FSL1H150J	CERAMIC	15PF	J		
C42			CE04FW1V4R7M	ELECTRO	4.7UF	35WV		
C43			CE04FW1H3R3M	ELECTRO	3.3UF	50WV		
C44			CE04FW1H2R2M	ELECTRO	2.2UF	50WV		
C45			CK45FF1H223Z	CERAMIC	0.022UF	Z	TE	
C45			C91-0085-05	CERAMIC	0.022UF	N	KPUM	
C45			C91-0085-05	CERAMIC	0.022UF	N	UESX	
C46			CK45FF1H103Z	CERAMIC	0.01UF	Z	TE	
C46 ,47			C91-0083-05	CERAMIC	0.01UF	N	KPUM	
C46 ,47			C91-0083-05	CERAMIC	0.01UF	N	UESX	
C47			CF92FV1H103J	MF	0.010UF	J	TE	
C48			CC45FSL1H820J	CERAMIC	82PF	J	TE	
C49			CC45UJ1H270J	CERAMIC	27PF	J		
C50			CQ09FS1H391J	POLYSTY	390PF	J		
C51			CQ09FS1H181J	POLYSTY	180PF	J	TE	
C52		*	CC45CH1H131J	CERAMIC	130PF	J	TE	
C53 -55			CK45FF1H473Z	CERAMIC	0.047UF	Z	TE	
C55			CK45FF1H473Z	CERAMIC	0.047UF	Z	KPUM	
C55			CK45FF1H473Z	CERAMIC	0.047UF	Z	UESX	
C56			CK45FB1H102K	CERAMIC	0.001UF	K		
C57			CK45FF1H223Z	CERAMIC	0.022UF	Z	TE	
C57			C91-0085-05	CERAMIC	0.022UF	N	KPUM	

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C57			C91-0085-05	CERAMIC 0.022UF N	UESX	
C58			CE04FW1A470M	ELECTRO 47UF 10WV		
C59		*	CK14B1H102K	CERAMIC 0.001UF K	KPUM	
C59		*	CK14B1H102K	CERAMIC 0.001UF K	UESX	
C59			CK45FB1H102K	CERAMIC 0.001UF K	TE	
C60 ,61			CK45FF1H223Z	CERAMIC 0.022UF Z	TE	
C60 ,61			C91-0085-05	CERAMIC 0.022UF N	KPUM	
C60 ,61			C91-0085-05	CERAMIC 0.022UF N	UESX	
C62			CE04FW1C100M	ELECTRO 10UF 16WV		
C63			CK45FF1H223Z	CERAMIC 0.022UF Z	TE	
C63			C91-0085-05	CERAMIC 0.022UF N	KPUM	
C63			C91-0085-05	CERAMIC 0.022UF N	UESX	
C64		*	CF92FV1H122J	MF 1200PF J	TE	
C65			CK45FB1H681K	CERAMIC 680PF K	TE	
C66			CK45FF1H223Z	CERAMIC 0.022UF Z	TE	
C67			CK45F1H103Z	CERAMIC 0.01UF Z	E	
C68 -70			CE04FW1C100M	ELECTRO 10UF 16WV	E	
C68 ,69			CE04FW1C100M	ELECTRO 10UF 16WV	KPUM	
C68 ,69			CE04FW1C100M	ELECTRO 10UF 16WV	UESXT	
C71			CE04FW1E100M	ELECTRO 10UF 25WV		
C72 -74			CK45FF1H103Z	CERAMIC 0.01UF Z	TE	
C73 ,74			CK45FF1H103Z	CERAMIC 0.01UF Z	KPUM	
C73 ,74			CK45FF1H103Z	CERAMIC 0.01UF Z	UESX	
C75			CE04FW1E102M	ELECTRO 1000UF 25WV		
C76			CE04FW1C100M	ELECTRO 10UF 16WV		
C77			CE04FW1A470M	ELECTRO 47UF 10WV		
C78			CE04FW1HR22M	ELECTRO 0.22UF 50WV		
C79			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
TC1 ,2			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF)	TE	
41	2B		E13-0217-05	PHONO JACK (2P)OUTPUT		
42	2B		E20-0452-05	SCREW TERMINAL BOARD(4P)ANT		
JC1			E40-0756-05	SOCKET FOR PIN ASSY (7P)		
JC2			E40-0456-05	SOCKET FOR PIN ASSY (4P)		
-			L79-0135-05	FILTER SET	TE	
CF1			L72-0126-05	CERAMIC FILTER	TE	
CF1 ,2			L72-0136-05	CERAMIC FILTER	KPUM	
CF1 ,2			L72-0136-05	CERAMIC FILTER	UESX	
CF2			L72-0131-05	CERAMIC FILTER	TE	
CF3			L72-0099-05	CERAMIC FILTER		
L1			L40-2292-14	SMALL FIXED INDUCTOR 2.2UH,M		
L2			L30-0407-05	FM IFT		
L3			L30-0328-05	FM IFT		
L4			L30-0362-05	AM IFT		
L5			L31-0488-05	MW-RF COIL	TE	
L5			L31-0490-05	MW-RF COIL	KPUM	
L5			L31-0490-05	MW-RF COIL	UESX	
L6			L32-0277-15	MW OSCILLATING COIL		
L7			L40-1092-14	SMALL FIXED INDUCTOR 1.0UH,M	E	
L8			L31-0489-05	LW-RF COIL	TE	
L9			L79-0125-05	LC FILTER(B.P.F.)	TE	
L10			L79-0154-05	LC FILTER	TE	
L11		*	L32-0289-05	LW OSCILLATING COIL	TE	
R20			RD14GB2E221J	FL-PROOF RD 220 J 2E	KPUM	
R20			RD14GB2E221J	FL-PROOF RD 220 J 2E	UE	

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PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
R56			R92-0513-05	FL-PROOF RD 10 G 2E	KPUM	
R56			R92-0513-05	FL-PROOF RD 10 G 2E	UETE	
R73			RS14GB3A121J	FL-PROOF RS 120 J 3A		
VR1			R12-2305-05	TRIM POT. (5K) VCO		
VR2			R12-5309-05	TRIM POT. (100K) SEPARATION	TE	
S1			S40-4048-05	PUSH SWITCH	TE	
D1			S1WB10	DIODE (RECTIFIER)		
D2			RD5.1E(B2)	ZENER DIODE(POWER SUPPLY)		
D3 -12			1S1555	DIODE	KPUM	
D3 -12			1S1555	DIODE	UESX	
D3 -12			1S2076	DIODE	KPUM	
D3 -12			1S2076	DIODE	UESX	
D3 -17			1S1555	DIODE	TE	
D3 -17			1S2076	DIODE	TE	
IC1			HA11225	IC(FM-IF)		
IC2			LA1245	IC(AM)		
IC3			AN7470	IC(FM-MPX)		
IC4			AN6561	IC(OP AMP)		
Q1			2SC1675	TRANSISTOR		
Q2			2SC2320(E,F)	TRANSISTOR		
Q2			2SC945(A)(Q,P)	TRANSISTOR		
Q3 ,4			2SC2320	TRANSISTOR		
Q3 ,4			2SC945(A)	TRANSISTOR		
Q5			2SC2320(E,F)	TRANSISTOR	T	
Q5			2SC945(A)(Q,P)	TRANSISTOR	T	
Q5 ,6			2SC2320(E,F)	TRANSISTOR	E	
Q5 ,6			2SC945(A)(Q,P)	TRANSISTOR	E	
Q7			2SA733(A)(Q,P)	TRANSISTOR		
Q7			2SA999(E,F)	TRANSISTOR		
Q8			2SA733(A)	TRANSISTOR		
Q8			2SA999	TRANSISTOR		
Q9			2SA733(A)(Q,P)	TRANSISTOR		
Q9			2SA999(E,F)	TRANSISTOR		
Q10			2SD863	TRANSISTOR		
Q11			2SC2320(E,F)	TRANSISTOR	TE	
Q11			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q12			2SC2878	TRANSISTOR	TE	
Q13			2SK136(R,S)	FET	TE	
Q13			2SK163(L,M)	FET	TE	
45	2B		W02-0520-05	FM FRONT-END ASSY	KPUM	
45	2B		W02-0520-05	FM FRONT-END ASSY	UEXT	
45	2B		W02-0521-05	FM FRONT-END ASSY	E	
45	2B		W02-0522-05	FM FRONT-END ASSY	S	
SUB-CIRCUIT (X13-4380-11)						
D1 -5	2A,2B		B30-0476-05	LED(SLP-253B-40)SIGNAL		
D6	2B		B30-0475-05	LED(SLP-153B-40)STEREO		
D7	2A		B30-0450-05	LED(SLP-575D-40)POINTER		
C1			CK45FF1H473Z	CERAMIC 0.047UF Z		
R8			R92-0173-05	RC 2.2M M 2H	KP	
S1	2B		S40-2178-05	PUSH SWITCH (POWER)		
S2	2B	*	S42-2107-05	MULT PUSH SW(FM MODE,AM/FM)	KPUM	
S2	2B	*	S42-2107-05	MULT PUSH SW(FM MODE,AM/FM)	UESX	

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S2	2B	*	S42-2108-05	MULT PUSH SW(FM MODE,AM/FM)	TE	
IC1			AN6876	IC(SIGNAL LED DRIVER)		

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